

What is claimed is:

1. An electronic camera comprising:

a volatile memory that temporarily maintains image data;

5 a detector that detects a remaining capacity of a battery for supplying power to said volatile memory; and

a maintain time calculator that calculates a maintainable time of the image data maintained in said volatile memory based on the remaining capacity detected by said detector.

2. An electronic camera according to Claim 1, further comprising a display for displaying the maintainable time.

3. An electronic camera according to Claim 2, further comprising a connecting portion communicating image data with an external memory.

4. An electronic camera according to Claim 3, the external memory comprises a recording medium detachably accommodated to the camera, and said connecting portion comprises a connector.

20 5. An electronic camera comprising:

a volatile memory that temporarily maintains image data;

a detector that detects a remaining capacity of a battery for supplying power to said volatile memory;

25 a setter that sets a desired data maintain time for said

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volatile memory in which the image data is maintained;

a maintain capacity calculator that calculates a maintain capacity that is a battery capacity to allow the image data to be maintained for the desired data maintain

5 time; and

an enabled time calculator that calculates a time during which the camera is enabled based on a capacity difference obtained by subtracting the maintain capacity from the remaining capacity of the battery.

10 6. An electronic camera according to Claim 5, further comprising a display for displaying the camera enabled time.

7. An electronic camera according to Claim 6, further comprising a maintain time calculator that calculates a maintainable time of the image data maintained in said
15 volatile memory based on the remaining capacity of the battery detected by said detector, wherein

said display displays the camera enabled time and the maintainable time.

8. An electronic camera according to Claim 6, wherein
20 said display displays the desired data maintain time set by said setter along with the camera enabled time.

9. An electronic camera according to Claim 6, further comprising a connecting portion communicating image data with an external memory.

25 10. An electronic camera according to Claim 9, the

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external memory comprises a recording medium detachably accommodated to the camera, and said connecting portion comprises a connector.

11. An electronic camera comprising:

5 a volatile memory that temporarily maintains image data to be transferred to an external memory of the camera;

a detector that detects a remaining capacity of a battery for supplying power to said volatile memory;

10 a maintain time calculator that calculates a maintainable time of the image data recorded in said volatile memory based on the remaining capacity of the battery detected by said detector;

15 a recording mode selector that selects one of a first recording mode for transferring and recording the image data to the external memory after maintaining the image data in said volatile memory temporarily and a second recording mode for recording the image data in said volatile memory; and

20 a display for displaying the maintainable time when the second recording mode is selected by said recording mode selector.

12. An electronic camera according to Claim 11, further comprising:

a setter that sets a desired data maintain time for said volatile memory in which image data is maintained;

25 a maintain capacity calculator that calculates a

maintain capacity that is a battery capacity to allow image data to be maintained for the desired maintain time; and

an enabled time calculator that calculates a camera enabled time based on a capacity difference obtained by
5 subtracting the maintain capacity from the remaining capacity of the battery, wherein

said display displays the camera enabled time and the maintainable time.

10 13. An electronic camera according to Claim 5, further comprising a disabling unit that disables operations of the camera other than the maintenance of image data recorded in said volatile memory when the remaining capacity of the battery is equal to or smaller than the maintain capacity.

15 14. An electronic camera according to Claim 6, further comprising a disabling unit that disables operations of the camera other than the maintenance of image data recorded in said volatile memory when the remaining capacity of the battery is equal to or smaller than the maintain capacity.

20 15. An electronic camera according to Claim 7, further comprising a disabling unit that disables operations of the camera other than the maintenance of image data recorded in said volatile memory when the remaining capacity of the battery is equal to or smaller than the maintain capacity.

25 16. An electronic camera according to Claim 8, further comprising a disabling unit that disables operations of the

camera other than the maintenance of image data recorded in said volatile memory when the remaining capacity of the battery is equal to or smaller than the maintain capacity.

17. An electronic camera according to Claim 12, further comprising a disabling unit that disables operations of the camera other than the maintenance of image data recorded in said volatile memory when the remaining capacity of the battery is equal to or smaller than the maintain capacity.

18. An electronic camera comprising:

10 a volatile memory that temporarily maintains image data;

a detector that detects a remaining capacity of a battery for supplying power to said volatile memory;

a maintain time calculator that calculates a

15 maintainable time of the image data maintained in said volatile memory based on the remaining capacity of the battery detected by said detector;

an enabled time calculator that calculates a camera enabled time based on the remaining capacity of the battery

20 detected by said detector; and

a display that displays the maintainable time and the camera enabled time.